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Application No: 10532369 Version No: 1.0

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<110> AXEN, ANDREAS  
 BAUMANN, HERBERT  
 CARREDANO, ENRIQUE

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<130> PU0284

<140> 10532369

<141> 2008-01-16

<150> PCT/SE03/01435

<151> 2003-09-12

<150> SE 0203226-6

<151> 2002-10-31

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<170> PatentIn Ver. 3.3

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Asp Arg Val Asn Ile Ala Cys Arg Ala Ser Gln Gly Ile Ser Ser Ala  
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Arg Leu Leu Ile  
 35 40 45

Tyr Asp Ala Ser Asn Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly  
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80

Glu Asp Phe Ala Ile Tyr Tyr Cys Gln Gln Phe Asn Ser Tyr Pro Leu  
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala  
 100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly  
 115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala  
 130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln  
145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser  
165 170 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr  
180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser  
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Phe Asn Arg Gly Glu Cys  
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<213> Homo sapiens

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Gln Val Lys Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Lys Pro Gly  
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Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser  
20 25 30

Tyr Gly Leu His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp  
35 40 45

Met Gly Trp Ile Ser Ala Gly Thr Gly Asn Thr Lys Tyr Ser Gln Lys  
50 55 60

Phe Arg Gly Arg Val Thr Phe Thr Arg Asp Thr Ser Ala Thr Thr Ala  
65 70 75 80

Tyr Met Gly Leu Ser Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr  
85 90 95

Cys Ala Arg Asp Pro Tyr Gly Gly Gly Lys Ser Glu Phe Asp Tyr Trp  
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro  
115 120 125

Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr  
130 135 140

Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr  
145 150 155 160

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro  
165 170 175

Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr  
180 185 190

Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn  
195 200 205

His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser  
210 215 220

Cys  
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Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu  
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Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro  
20 25 30

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly  
35 40 45

Asn Ser Gln Glu Ser Val Thr Glx Glx Asp Ser Lys Asp Ser Thr Tyr  
50 55 60

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His  
65 70 75 80

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val  
85 90 95

Thr Lys Ser Phe Asn Arg Gly Glu Cys  
100 105

<210> 4  
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<213> Homo sapiens

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Thr Pro Leu Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr  
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Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu  
20 25 30

Lys Ser Gly Thr Ala Ser Val Val Asx Leu Leu Asn Asn Phe Tyr Pro  
35 40 45

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly  
50 55 60

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr  
65 70 75 80

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His  
85 90 95

Lys Val Tyr Ala Asx Glu Val Thr His Gln Gly Leu Ser Ser Pro Val  
100 105 110

Thr Lys Ser Phe Asn Arg Gly Glu Asx  
115 120

<210> 5

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<212> PRT

<213> Homo sapiens

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Ser Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr  
1 5 10 15

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu  
20 25 30

Lys Ser Gly Thr Ala Ser Val Val Gly Leu Leu Asn Asn Phe Tyr Pro  
35 40 45

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly  
50 55 60

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr  
65 70 75 80

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His  
85 90 95

Lys Val Tyr Ala Gly Glu Val Thr His Gln Gly Leu Ser Ser Pro Val  
100 105 110

Thr Lys Ser Phe Asn Arg Gly Glu Gly  
115 120

<210> 6

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<212> PRT

<213> Homo sapiens

<400> 6

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln  
1 5 10 15

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr  
20 25 30

Pro Arg Glu Ala Lys Val Gln Trp Val Asp Asn Ala Leu Gln Ser Gly

35

40

45

Asn Ser Gln Glu Ser Val Thr Glu Gln Glu Ser Lys Asp Ser Thr Tyr  
 50 55 60

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His  
 65 70 75 80

Lys Val Tyr Ala Gly Glu Val Thr His Gln Gly Leu Ser Ser Pro Val  
 85 90 95

Thr Lys Ser Phe Asn Arg Gly Glu Cys  
 100 105

&lt;210&gt; 7

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 7

Trp Phe Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr  
 1 5 10 15

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu  
 20 25 30

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr His  
 35 40 45

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly  
 50 55 60

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr  
 65 70 75 80

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His  
 85 90 95

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val  
 100 105 110

Thr Lys Ser Phe Asn Arg Gly Glu Cys  
 115 120

&lt;210&gt; 8

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 8

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln  
 1 5 10 15

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr  
 20 25 30

Pro Arg Glu Ala Lys Val Gln Arg Lys Val Asp Asn Ala Leu Gln Ser  
35 40 45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Glu Ser Lys Asp Ser Thr  
50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys  
65 70 75 80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro  
85 90 95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
100 105

<210> 9

<211> 121

<212> PRT

<213> Homo sapiens

<400> 9

Phe Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr  
1 5 10 15

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu  
20 25 30

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asp Asp Phe Tyr Pro  
35 40 45

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly  
50 55 60

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr  
65 70 75 80

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His  
85 90 95

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val  
100 105 110

Thr Lys Ser Phe Asn Arg Gly Glu Cys  
115 120

<210> 10

<211> 121

<212> PRT

<213> Homo sapiens

<400> 10

Phe Pro Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr  
1 5 10 15



Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu  
20 25 30

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro  
35 40 45

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly  
50 55 60

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr  
65 70 75 80

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His  
85 90 95

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val  
100 105 110

Thr Lys Ser Phe Asn Arg Gly Glu Cys  
115 120

<210> 11

<211> 95

<212> PRT

<213> Homo sapiens

<400> 11

Tyr Ser Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg  
1 5 10 15

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln  
20 25 30

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr  
35 40 45

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser  
50 55 60

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr  
65 70 75 80

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu  
85 90 95

<210> 12

<211> 131

<212> PRT

<213> Homo sapiens

<400> 12

Ile Glu Leu Asp Ile Val Val Val Pro Ala Pro Met Arg Gly Ser Leu  
1 5 10 15

Gly Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala

20

25

30

Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser  
 35 40 45

Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe  
 50 55 60

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly  
 65 70 75 80

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu  
 85 90 95

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr  
 100 105 110

Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys  
 115 120 125

Val Glu Pro  
 130

&lt;210&gt; 13

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 13

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys  
 1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
 20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
 35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
 50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr  
 65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys  
 85 90 95

Lys Val Glu Pro  
 100

&lt;210&gt; 14

&lt;211&gt; 140

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<400> 14

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Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr
			20					25					30		
Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser
		35					40					45			
Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser
	50					55						60			
Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr
65					70					75					80
Tyr	Thr	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys
			85						90					95	
Arg	Val	Glu	Leu	Lys	Thr	Pro	Leu	Gly	Asp	Thr	Thr	His	Thr	Cys	Pro
			100					105						110	
Arg	Cys	Pro	Glu	Pro	Lys	Ser	Cys	Asp	Thr	Pro	Pro	Pro	Cys	Pro	Arg
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Cys	Pro	Glu	Pro	Lys	Ser	Cys	Asp	Thr	Pro	Pro	Pro				
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<210> 15

<211> 140

<212> PRT

<213> Homo sapiens

<400> 15

Ala	Ser	Phe	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Cys	Ser	Arg
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Ser	Thr	Pro	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr
			20					25					30		
Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser
		35					40					45			
Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser
	50					55						60			
Leu	Ser	Ser	Val	Val	Tyr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr
65					70					75					8